

What is claimed is:

1 1. A method of managing switchable resources in a first node among a
2 plurality of nodes in a clustered computer system, the method comprising, in the first
3 node:

4 (a) enrolling at least one additional node with a resource manager to
5 receive notifications of updates to a switchable resource in the clustered
6 computer system; and

7 (b) in response to an update to the switchable resource, notifying each
8 node enrolled with the resource manager of the update.

1 2. The method of claim 1, wherein the resource manager is configured to
2 generate notifications for each switchable resource within a domain of the first node.

1 3. The method of claim 2, wherein the resource manager is configured to
2 generate notifications for each switchable resource within a power domain of the first
3 node.

1 4. The method of claim 1, wherein the update comprises addition of the
2 switchable resource to the clustered computer system.

1 5. The method of claim 1, wherein the update comprises modification of
2 configuration data associated with the switchable resource.

1 6. The method of claim 1, wherein the switchable resource comprises a
2 switchable tower, and wherein the update comprises a modification to a set of field
3 replaceable units installed within the switchable tower.

1 7. The method of claim 1, wherein notifying each node comprises transmitting
2 configuration data associated with the switchable resource.

1 8. The method of claim 7, wherein the configuration data is selected from the
2 group consisting of unique identifier data, architecture map data, field replaceable unit
3 configuration data, and combinations thereof.

1 9. The method of claim 7, wherein the switchable resource comprises a
2 switchable tower, and wherein the configuration data includes vital product data for
3 the switchable tower and any field replaceable units incorporated therein.

1 10. The method of claim 1, wherein enrolling the additional node comprises
2 enrolling a remote network object with the resource manager, the remote network
3 object resident in the first node and configured to communicate with the additional
4 node over a logical communication path, and wherein notifying each node enrolled
5 with the resource manager of the update includes communicating configuration data
6 associated with the switched resource over the logical communication path.

1 11. The method of claim 10, wherein enrolling the additional node comprises
2 creating a client action object configured to initiate the communication of
3 configuration data over the logical communication path by interacting with the remote
4 network object, wherein notifying each node enrolled with the resource manager of
5 the update further includes invoking the client action object.

1 12. The method of claim 1, further comprising enrolling the switchable
2 resource with the resource manager, wherein notifying each node enrolled with the
3 resource manager is performed in response to enrolling the switchable resource with
4 the resource manager.

1 13. The method of claim 12, further comprising transmitting to the additional
2 node configuration data associated with each switchable resource enrolled with the
3 resource manager in response to enrolling the additional node with the resource
4 manager.

1 14. An apparatus, comprising:

2 (a) a first node configured for use in a clustered computer system;

3 (b) a first data structure resident in the node and configured to identify
4 a switchable resource;

5 (c) a second data structure resident in the node and configured to
6 identify each additional node in the clustered computer system to be notified in
7 response to an update to the switchable resource identified in the first data
8 structure; and

9 (d) program code resident in the node and configured to notify each
10 node identified in the second data structure in response to an update to the
11 switchable resource identified in the first data structure.

1 15. The apparatus of claim 14, wherein the program code is configured to
2 generate notifications for each switchable resource within a domain of the first node.

1 16. The apparatus of claim 15, wherein the program code is configured to
2 generate notifications for each switchable resource within a power domain of the first
3 node.

1 17. The apparatus of claim 14, wherein the update comprises addition of the
2 switchable resource to the clustered computer system, wherein the program code is
3 configured to update the first data structure to identify the switchable resource in
4 response to detection of the switchable resource.

1 18. The apparatus of claim 14, wherein the update comprises modification of
2 configuration data associated with the switchable resource.

1 19. The apparatus of claim 14, wherein the switchable resource comprises a
2 switchable tower, and wherein the update comprises a modification to a set of field
3 replaceable units installed within the switchable tower.

1 20. The apparatus of claim 14, wherein the program code is configured to
2 notify each node by transmitting configuration data associated with the switchable
3 resource.

1 21. The apparatus of claim 20, wherein the configuration data is selected from
2 the group consisting of unique identifier data, architecture map data, field replaceable
3 unit configuration data, and combinations thereof.

1 22. The apparatus of claim 20, wherein the switchable resource comprises a
2 switchable tower, and wherein the configuration data includes vital product data for
3 the switchable tower and any field replaceable units incorporated therein.

1 23. The apparatus of claim 14, wherein the program code is configured to
2 enroll a second node to be notified in response to an update to the switchable resource
3 by updating the second data structure to identify the second node.

1 24. The apparatus of claim 23, wherein the program code is configured to
2 enroll the second node by creating a client action object associated with the second
3 node, the client action object configured to initiate a communication of configuration
4 data over a logical communication path established to the second node from a remote
5 network object resident on the first node.

1 25. The apparatus of claim 23, wherein the program code is configured to
2 transmit to the second node configuration data associated with each switchable
3 resource identified in the first data structure in response to enrolling the second node.

1 26. The apparatus of claim 14, wherein the program code is configured to
2 enroll the switchable resource by storing the identifier for the switchable resource in
3 the first data structure, and to notify each node identified in the second data structure
4 in response to enrolling the switchable resource.

27. A clustered computer system, comprising:

- (a) a switchable resource;
- (b) first and second nodes; and
- (c) program code resident in the first node and configured to enroll the second node to receive notifications of updates to the switchable resource, the program code further configured to, in response to an update to the switchable resource, notify each enrolled node of the update.

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- 1 28. A program product, comprising:
- 2 (a) program code configured for use in a first node of a clustered
- 3 computer system to enroll a second node to receive notifications of updates to
- 4 a switchable resource, and to, in response to an update to the switchable
- 5 resource, notify each enrolled node of the update;
- 6 (b) a signal bearing medium bearing the program code.

- 1 29. The program product of claim 28, wherein the signal bearing medium
- 2 includes at least one of a recordable medium and a transmission medium.